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ABSTRACT

This publication contains curriculum material and suggestions for teaching disease prevention and control in grades four, five and six. Objectives of this program include; 1) an understanding of the basic differences between communicable and non-communicable disease syndromes, and a familiarity with representative diseases from each of these groups; 2) gaining a perspective on man's historical efforts to understand and cope with disease, and appreciate how developments of the past are related to present efforts; and 3) be familiar with the mechanisms of immunity, and take advantage of those immunizations recommended for the prevention of disease. The publication format is intended to provide teachers with a basic content in the first column; a listing of the major understandings and fundamental concepts which children may achieve, in the second column; and information specifically designed for classroom teachers which should provide them with resource materials, teaching aids, and supplementary information in the third and fourth cclumns. (KJ)



AND SECONDARY GRADES CURRICULUM MATERIALS FOR THE ELEMENTARY PROTOTYPE

GRADES 4-6

STRAND I PHYSICAL HEALTH

DISEASE PREVENTION AND CONTROL

SPECIAL EDITION FOR EVALUATION AND DISCUSSION

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BUREAU OF ELEMENTARY CURRICULUM DEVELOPMENT/ALBANY, NEW YORK 12224/1969 THE UNIVERSITY OF THE STATE OF NEW YORK/THE STATE EDUCATION DEPARTMENT



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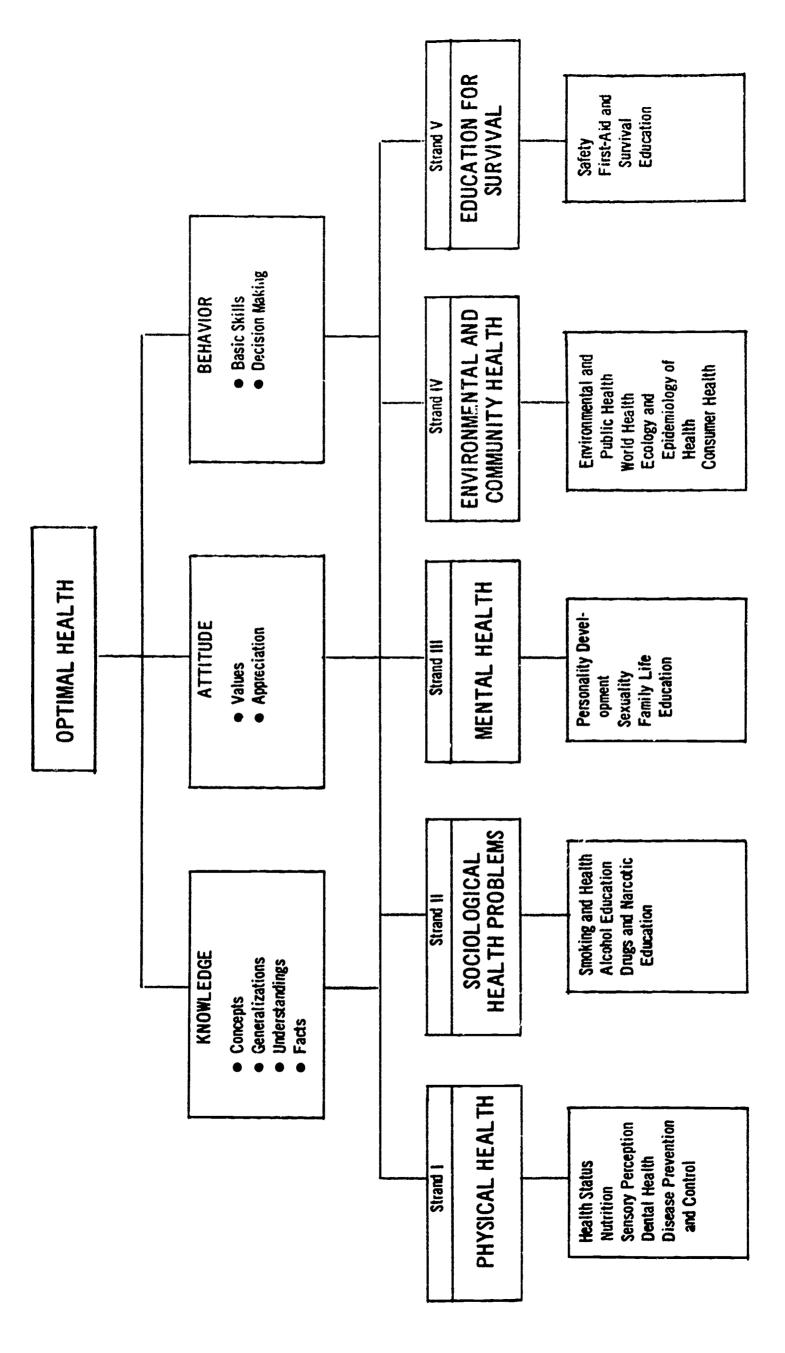
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HEALTH CURRICULUM MATERIALS Grades 4, 5, 6

STRAND I, PHYSICAL HEALTH Disease Prevention and Control

The University of the State of New York/The State Education Department Bureau of Elementary Curriculum Development/Albany 12224







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STRAND I

PHYSICAL HEALTH

Disease Prevention and Control

Grades 4, 5, and 6

OVERVIEW

Since ancient times, men have attempted to understand diseases and Concern with specific diseases has changed dramatically through the years, but contemporary health-scientists continue their relentless efforts to discover new knowledge necessary for the prevention and control of diseases that influence man's well-being. Present efforts to understand the ecological implications and the epidemiological significance of diseases have added new dimensions to man's understanding of the disease process. their relationship to human efficiency.



STRAND I

PHYSICAL HEALTH

Disease Prevention and Control

Grades 4, 5, and 6

OUTCOMES

PUPILS IN GRADES 4, 5, AND 6 SHOULD:

- understand the basic differences between communicable and non-communicable disease syndromes and be familiar with representative diseases from each of these groups.
- gain perspective on man's historical efforts to understand and cope with disease, and appreciate how developments of the past are related to present efforts.
- be familiar with the mechanisms of immunity and take advantage of those immunizations recommended for the prevention of disease.
- comprehend the significance of disease prevention and control and work to protect themselves, their families, and society from all forms of disease.

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

Disease takes many forms and may affect any part of the body

re of Disease

The Natur

part or all of the body healthy condition of a A disease is any un-

and types

Kinds

A.

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

Discuss the following questions:

- plishments in combat-What are man's accoming disease in the What is a disease?
- ideas about the nature What caused it? of disease? What it What were some early past 50 years? 3.

Review transmission of communicable diseases,

person to the solution to Show movie: "Health heroes: the battle against significance of the contributions of a single disease." Discuss the major social problems. Have pupils go to the library and research other "Health heroes" or significant developments. Appoint two committees of 4 pupils each. Have one committee develop a bibliography, with help from the

SUPPLEMENTARY INFORMATION FOR TEACHERS

son are called communicable mitted from person to perdiseases. Sometimes they gious diseases. A common are referred to as conta-Diseases which are transcharacteristic of all of some kind of infectious they are all caused by these diseases is that organism.

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

> center and independent that are being studied. librarian, on each of (These can become the study for the pupil.) the areas of disease basis for a resource

> > 5

available in this area. determine the kinds of learning aids that are the school health edu-These also can become part of the learning Have the second comcator, school nursemittee consult with teacher, and dental hygiene teacher to center.

Review the three elements necessary for the occurrence of an infectious disease.

seases are caused by in-

fectious agents

All communicable di-

communicable

on the interaction of three The development of an infectious disease depends elements:

- Develop a comparison table with the class, using following headings:
- 2.3.

environment

agent

host

- Name of disease
- Infecting agent Kind of immunity possible
- General nature of the disease 4
- Have pupils list two

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

diseases for each causative agent and two diseases which are not communicable.

Communicable diseases are of many different kinds, but they are all capable of being transmitted from person to person.

Show and discuss the movie: "Your health: disease and its control." Coronet Films.

2. noncommunicable diseases

Many diseases (e.g., degenerative diseases)
which attack man cannot
be transmitted from one
person to another.

Have pupils write a short essay on "Why some diseases cannot be passed on to other people."

Questions:

- In what ways are noncommunicable diseases different from communicable?
- 2. Can some noncommunicable diseases be
 "caught" from someone
 who has it?
- What are some examples of noncommunicable

diseases?

4. How does the control of noncommunicable diseases differ from the communicable? How is it similar?

diseases communicable, for examinto such cateeases which are not transly speaking, however, dismitted from person to person may be called noncomand degenerative diseases diseases include chronic Diseases may be further municable diseases. ple: appendicitis. all infectious subdivided gories as: are Not

- l. Deficiency diseases due to a lack of essen tial nutrients (i.e.
 scurvy)
- 2. Hereditary resulting from faulty genes (mongolism, color blindness, hemophilia)
- Constitutional due to a dysfunction of an organ or tissue (diabetes)
 Traumatic diseases

(fractures, burns) SEE APPENDIX D

ENCE REFERI

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

There are many different causes of diseases.

> considerations Etiological

В.

SUGGESTED TEACHING AIDS AND LEARNING ACITVITIES

Have pupils read and report on the following books:

- Dear little mumps
- child
- Karen gets a fever Michael gets the

seases.

- measles
- Penny the medicine maker
- Peter gets the chicken pox

SUPPLEMENTARY INFORMATION FOR TEACHERS

specific, as in the case of some may be quite general, Some causes of disease are infectious diseases, and heart and circulatory di as in the case of some

infectious organisms are: The most common kinds of

- Bacteria
- Fungi
- Protozoa
- Spirochetes
 - Viruses
- eases may be more meaning-ful if pupils are aware of pupils to learn or memorize all of these, but discussions of infectious disthe variety of organisms (It is not necessary for that may cause disease.)

or on other living things. Parasites make humans ill, sites, i.e., they live in and often interfere with Most microorganisms that cause disease are parahuman life processes.

Have a class committee:

- available on disease obtain from the library all the books and its control.
- obtain from the school posters or other visuhealth coordinator al charts. 5
- visual director slides, fulmstrips and movies. obtain from the audio-3

The above can be made into a display. Invite other pupils to see it.

NOUR UNDERSINADINGS AND FUNDAMENTAL CONCEPTS MAJOR UNDERSTNADINGS

individual's susceptibil-Age, sex, and heredity sometimes influence an ity to disease.

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

write, direct, produce and Have a committee of pupils some great event in man's attempts to conquer disact in a play based on

FOR TEACHERS

SUPPLEMENTARY INFORMATION

They are usually associated personal hygiene. Examples would include some kinds of struction of body tissues. Some of these diseases are heart and circulatory dis-Degenerative diseases are due partly to heredity or tious diseases or of poor with old age, but may ocof degenerative diseases aging. Some are the inturbances, diabetes, and direct results of infecdiseases due to the decur in the very young. nephritis,

prevalent among members of abetes is more common in Some diseases are more one sex than another. women, for example.

viduals may inherit a preheriting diseases, indidisposition to some dis-Rather than directly ineases (e.g., diabetes).

of Disease II. Histor

Prehistoric times A.

disease, as attested by: Man has always tried to understand the cause of

- Prehistoric "evil spirits" theory 1:
- Later religious

events to man's efforts to Have class develop a timeline and through library research include the key understard disease.

classroom chart which could be constructed of oaktag covered with acetate and Appendix A represents a events written in with water soluble markers.

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

connotation as in the "Wrath of God"

3. Sun theory

Prehistoric men the 'ht diseases were due to the invasion of the body by evil spirits. The treatment was to appease these spirits or drive them from the body. Religion has been closely associated with disease since the earliest times.

The Romans associated disease with unsanitary conditions as did the ancient Hebrew Culture. These conditions led to the development of elaborate drainage systems, water sysgems and general sanitary measures to deal with the problem on a public health level.

SEE APPENDIX C

B. Early civiliza-tion

- Roman Empire
 Hebrews
- 3. Greeks
- Each of the civilizations that developed during man's history has made contributions to our understanding of the factors related to disease prevention and control.

Have pupils do some library research and reporton the:

- 1. Hebrew sanitary code 2. Eber Papyrus-Smith
 - 2. Ever rapyrus-smillPapyrus3. Hippocrates and
- Hippocrates and the Hippocratic Oath. Discuss how he applied the scientific procedure to the practice of medicine.

MAJOR UNDERSTNADINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS: AND LEARNING ACTIVITIES

Organize a panel to dis-

cuss the application of disease theories of the

past to the present.

SUPPLEMENTARY INFORMATION FOR TEACHERS

C. Modern Age

The discovery of microorganisms, and the formulation of the germ theory of disease led to the development of new approaches to disease control (e.g. immunology)

Visit a modern health department or clinic. Compare the practices with those of 100 years ago; also just 25 years ago. How are they alike? How do they differ? Make a comparison table and put

when Pasteur in 1864 demonthe development of the new of modern medicine was lai came the key to the undervirology, and immunology. Epidemiological practices covery of bacteria led to sciences of bacteriology, improved and research be-The cornerstone noted with the advent of Specific prevention meastanding and control of sures and practices are strated that specific the modern age. disease.

Add to it as more know-

ledge is acquired.

on the bulletin board.

III. Modern Approaches to Disease Control

Some disease control
measures are very specific (immunization), while
others may be very general
(sanitation).

See Strand IV - Public and Environmental Health for Details of Public Health Practices.

microbes caused specific

diseases

Visit the public health department or county laboratory. Learn how this department functions.

l. Why are there special
 clinics for the con trol of disease?

Many diseases can be prevented by modern measures for disease control. These measures would include:

- 1. Individual responsibil-
- 1. Public prevention measures

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REFER

MAJOR UNDERSTNADINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

ment know when to have immunization clinics? How does the depart-

measures, campaigns and

activities

Special cooperative

3.

Application of research

data.

- ment cooperate with the How does the departdisease control and family physician in prevention? 3.
- of the county labora-What is the function tory? 4.

boy against smallpox. This

Jenner vaccinated a young

curred in 1796 when Edward

The first successful arti-

ficial immunization oc-

was the first specific pre-

ventive measure against disease developed by man.

the community's efforts Make a dioramic display disease control.

SEE APPENDIX B

of an antigen into the body

involves the introduction

The process, basically,

which, in turn, stimulates

the body to produce anti-

bodies.

which may be genetically

determined.

The body has a natural resistance to disease

Immunity and immunization

A.

- "Invasion by disease"
- invasion by disease"

against disease"

Immunization is the process through which a develops protection

filmstrip(s), from McGraw-Select an appropriate

stances that may be injected Antibodies are chemical sub-

into or developed by the body. These protect the

individual from contracting

which the antibody is in-

tended.

a specific disease for

- "Germ invaders"
- "Helping body defenses "Body defenses against

ability of an individual to Immunity may be classified resist a specific disease. Specific immunity is relaas specific, that is, the tive, not absolute.

against a specific disease.

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACITIVTIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

The toxins of some microorganisms act so rapidly and are so poisonous that they take effect before the body has time to develop antibodies against them.

velops its own antibodies, either by having the dis-ease (natural) or when given Active immunity is the process whereby the body deperson receives these anti-bodies from an outside when injected directly into are transferred to the newis the process whereby the source, as when antibodies born baby from the mother before birth (natural) or longer-lasting protection than passive immunity (measles, mumps, chicken pox). In some instances an antigen (acquired); whereas passive immunity through "booster" doses tive immunity provides periodic reinforcement the body (acquired). necessary. There are, broadly speaking, two kinds of immunity:

 Artificial in which the body is induced by artificial means (vac-

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MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

cination) to build its own antibodies, or the antibodies are introduced directly by innoculation.

munity can be developed, antibodies through some and recovering from it. kind of natural inducement, such as having a disease for which imbody develops its own Natural in which the 2

> From Curriculum Materials Corporation:

How disease germs are Germs cause disease spread Build on the diorama, already begun.

to Strand IV "Public and Environmental Health"; (2) to use this as a means to lead into or from Strand IV; (3) or to introduce this area as a part of the total effort The teacher may wish: (1) to leave this area envirely to prevent and control diseases.

The public health depart-ment is concerned with the health of the entire community. diagnostic sanitation techniques Public health measures research

1. 2. 3.

ж .

needs the cooperation of The health department each individual.

tion, it is important that each person be adequately the individual's coopera-Since much of the prevention and control of disinformed about disease. ease is dependent upon

public health

education

Health education

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school home

1. 2. 3.

and trate, list, or explain methods used to educate Ask the class to illus-Compare the advantages people about diseases. disadvantages of each.

the mass media, as well as the direct efforts of the literature available, and Much health education is going on in the home through daily practices, parents to teach their children. Commercial

Pupils may survey such

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION

FOR TEACHERS

areas as spot announcements on T.V. or radio, school's health education program, public forums, etc. Invite to class an executive Secretary from one of the voluntary health agencies to discuss how their agency educates people about disease. Examples: American Cancer Society, TB and RD Association, or the National Foundation.

D. Treatments

general
 drugs

Treatment for disease may vary from simple bed rest to the use of a variety of modern drugs, surgery, and radiation.

The discovery of many drugs has enabled man to control many diseases which a few years ago would have incapacitated or killed him

Invite a physician to class to discuss how new drugs have changed the treatment of disease.

Begin a "Museum of medical oddities." Include in the collection: old medicine bottles, medical books, instruments, pictures from the past, etc.

Have pupils report to the class on the discovery

product advertising is one form of health education that has a tremendous influence on health practices as well as consumer buying. It might be well to indicate to pupils that

everyone's efforts are im-

portant in that they tend

to reinforce each other.

Some of our newest drugs are antibiotics which are "germ-killing" substances produced by living plants. Dr. Alexander Fleming is given credit for discovering the first of the antibiotic drugs, penicillin, in 1928. Since ther many antibiotics have been developed--Streptomycin is the second most important antibiotic drug in this category.

Scientists continue to search the 'world of molds" for substances that may be beneficial in the treatment

MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

REFERENCE

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

and use of one of the an-Discuss: tibiotic drugs.

- How are they alike? How do they differ? 3.5.
- What are their limitations?
 - Who can buy them? Why?

of disease.

SUPPLEMENTARY INFORMATION

FOR TEACHERS

common cold, measles, mumps agents. There is evidence, biotics have been too widetified and used for a variallergic reactions to some of the antibiotics. There ety of diseases. They are not, however, "cure-alls" since they have been inefpast 20 years numerous anfective against many distibiotics have been idenfor example, that antibiis little doubt, because a lack of information practitioner, that antiotics may actually delay the recovery in the case dividuals have developed and influenza. Many inof such diseases as the ly and indiscriminately to the general public, well as to the medical eases caused by virus

of many infectious diseases, control of diabetes, antiand tranquilizers for the include: insulin for the biotics for the treatment Examples of drugs would control of certain emòtional conditions.

FUNDAMENTAL CONCEPTS

MAJOR UNDERSTANDINGS AND

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

3. rehabilitation

Rehabilitation is an essential part of treatment, and includes those measures that help an individual to return to his family and community as rapidly, and as healthy as possible.

A rehabilitation counselor may be available to discuss the many ways that individuals may be rehabilitated.

An individual may not be cured of a disease, for example, diabetes, but he should be taught to "live with his disability" and function to the best of his ability.

IV. Significance of Disease - It's Control
and Prevention

Programs of disease pre-

vention and control are

dependent upon individu-

als being informed of the nature of disease.

A. To the individual

. personal efficiency

longevity

Illness causes personal unhappiness and loss of productivity as well as financial strain on the family.

Make a wall-size chart of the major causes of death 50 years ago and superimpose those of today. What kinds of changes have occurred? Why?

The major killers 50 years ago, pneumonia, tuberculosis, influenza, diphtheria, all of which are communicable diseases, have decreased significantly. They have been replaced by such conditions as accidents, heart and circulatory diseases, cancer, and kidney diseases. Man's

B. To society

1. economics and
 standard of
 living

Disease causes incapacitation, loss of time from work and retardation in efficiency, all of which will effect the total economy.

Programs to prevent and control diseases have

progress

5

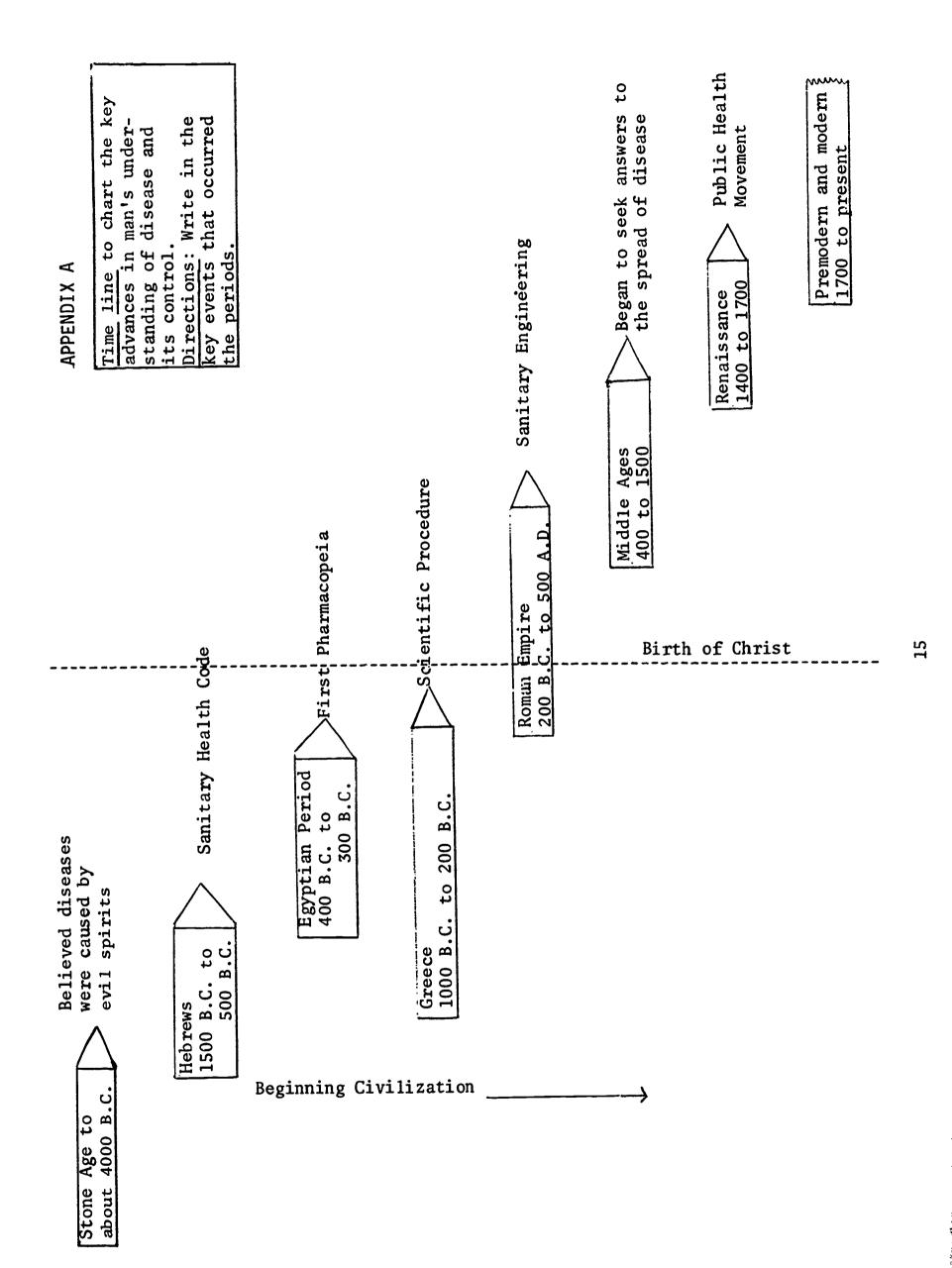
SEE APPENDIX D

a greater problem than are the communicable diseases.

has increased so that the degenerative diseases are

average life expectancy

13



MAJOR UNDERSTANDINGS AND FUNDAMENTAL CONCEPTS

progressed from the incantations of the medicine

man to complex programs based on:

SUGGESTED TEACHING AIDS AND LEARNING ACTIVITIES

SUPPLEMENTARY INFORMATION FOR TEACHERS

population trends

the world To ပ

research

sanitary engineering 1.2.8.4.

treatment rehabilitation prin-

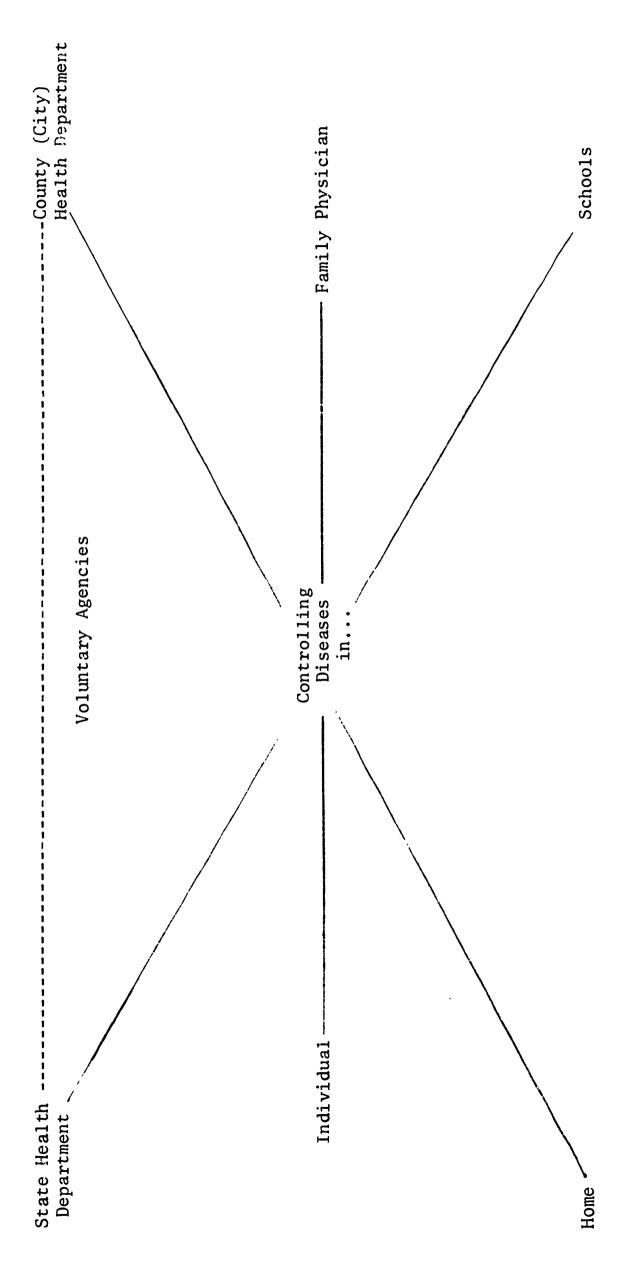
ciples

APPENDIX B

Diorama - Control of Disease

Federal Agencies

World Health Organization



Directions: Obtain materials and/or build models that will represent these agencies. Through models, diagrams, and printed materials illustrate how these help or hinder the control of all diseases - communicable and noncommunicable. Place on a large table or bulletin board. Connect key activities with string or yarn.

APPENDIX C

A Brief Outline of the Development of Medicine and Public Health - Stone Age to Present

EVENT

SIGNIFICANCE

Early Stone Age to Late Stone Age (To about 4000 BC)

fears Superstition Ideas:

- malign spirits evil spirits 4.2.8.4

demons

ignorance

sacri-- offerings magic - incantation Practices:

- all sorts of magic rites fices

medicine men & witch doctors

exorcising demons

trephining

use of some drugs from herbs

lization (4000 BC to 800 BC) Early Civi

(4000 BC to 1000 BC) Egyptians

- Imhotep first physician deified 2980 BC
- a. temples built in his honor
 b. worship cures
 Ebers Papyrus
 a. 300 prescriptions
 b. found by G.M. Ebers 1873

- Smith Papyrus
- and a. extensive account of surgical procedures bandaging ndaging

sought the cause and treatment of disease

- began simple surgical procedures 1.2.3.
- laid the foundation for group action to man's health problems
 - recognized cause and possible cure for disease

- first pharmacopeia
- and medical surgical standard records for procedures 1:
- dressing for wounds
- some break-away from true witch-doctor practices 3.
 - bandaging procedures 5.

APPENDIX C

late 1800's high priest ಡ of tomp ಡ in found **م**.

BC) BC to 500 (1500)**Hebrews**

- Hebrew health code
- prayer and disease due to Jehovah's wrath sacrifice 1:
 - to use magic and charms forbidden
 - physicians and pharmacists
- dressing for wounds simple surgery
- of appealing to Jehovah cures instead

BC) BC to 200 (1000)Greece

- emphasized a strong body and moral excellence 1:
- Hippocrates (Father of Medicine) 460 to 375 BC Hippocratic Oath ъ.
 - b. diagnostic techniques Empedocles 490 to 430 BC
- Thought demons to be sometimes favorable and not sometimes 3.

500 AD) (200 BC to Roman Empire

- aqueducts public baths running water Roman sanitation (Sextus Julius Frontinus) a. aqueducts - public baths - running wat
 - sewage disposal
 - streets paved Ω,
- building codes purity of food ပ
 - d.
 - Census 5

- public sanitation 1.2.8.4
- etc. purity of food, clothing,
 - break from pure magical
- isolation measures

- foundation to modern medical procedures
 - laid foundation for medical ethics and diagnostic techniques purposes
- recognized that disease did not always result
- a whole being recognized that man develops as ۶. 4 ن
- established the basic principles for sanitary engineering
- beginnings of community regulation of public health measures 5
- many of the present day principles for no public nealth measures were founded Roman principles

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(400 to 1500)es Middle Ag

- Black death (1348 to 1650) a. Venice excludes ships from infecting ports
- ٠ د :
- (1374)
 Marseilles established quarantine (1384)
 1630 plague killed 500,000 people in Venetian
 Republic
 1665 plague killed 1,000 people per week in
 - London ф.

- General hygiene

 a. sanitation directed only toward visible filth

 b. isolation applied more strictly but ineffective

 c. many Greek health principles during this era

 (e.g., emphasis on personal hygiene)

Renaissance (1400 to 1700)

- a. hospitals built for isolation
 b. quarantine more rigid
 c. municipal laws passed to regulate public health
 Diseases
 a. bacteria still unknown
 b. theory persists that disease was bred in filth
 c. by the end of the 14th century 12 diseases were
 recognized as being communicable

Pre-Modern Period (1700 to 1876)

- Public health

 a. boards of health established (Boston first with Paul Revere as director)

 b. sanitary engineering

 (1) Roman methods revived
- sewers built first in Boston in 1833
- by 1800, 16 cities had municipal water works

- man began to recognize the need for group action in combating disease
 - re-established the beginnings in public health practices
 - gave impetus to seeking the answers communicable disease control

- beginnings of man's control of disease
 - curiosity aroused anew
- science begins to advance at a rapid pace public health movement, although not
 - derway, was stimulated

- true public health measures taken
- enforcement of public health practices greater awareness of group action

APPENDIX C

- statistics vital ij
 - Diseases 5
- a. b.
- immunity 1798 bacteria discovered

(1876 to present) Modern Period

- bacteria and immunology 1:
- development of public health agencies a. official agencies
 - - voluntary
- specialization of medical profession public health today 3.
 - - laws
- vital statistics sanitation ъ. с.
- laboratory work clinical work research
- g. if e. d.
- education

- development of new approaches expansion of programs
- expansion of the purposes and goals to include: 3.
- promotion prevention b.
 - education
- rehabilitation

APPENDIX D

Noncommunicable Diseases and Ailments

Others today, six are in this category, namely, diseases of the heart, cancer, since 1900, people are living longer and into the age range where they Included in this category are chronic, degenerative, or constitutional stroke, arteriosclerosis, diabetes, and cirrhosis of the liver. Ot that take their toll in sickness and possibly death are rheumatism, Of the 10 leading causes of death in the United States are more likely to be afflicted with the noncommunicable diseases the phenomenal reduction in deaths from communicable nephritis and other kidney diseases, asthma, and hay fever.

it would be impossible with our present knowledge to prevent all the deaths of incapacitation could be prevented if more people were better informed and disabilities that they cause. However, many deaths and a great deal In a sense, the chronic diseases are a result of the destruction of the human body and of the gradual slowing down of its function. about these diseases and were willing to take precautions. in many instances, need emphasis in early childhood.

For the following In spite of the fact that these are essentially diseases of middle and old age, children need instruction in this area. For the follow reasons, this inclusion in the elementary grades is amply justified:

- They are often the result of improper health practices that are formulated during childhood and adolescence.
- 2. Though they are essentially diseases of older people, chronic and degenerative diseases do afflict some children and young adults.
- 3. It is quite likely that school children will have indirect experience with one or more of these diseases as older relatives and/or friends become ill from them.
- 4. Periodic medical examinations can detect these illnesses and may prevent illness and premature loss of life.

APPENDIX E

Guidelines for independent study and class discussion:

- 1. Distinguish between communicable and noncommunicable disease.
- 2. What is an infection? How does it occur?
- 3. What are some common symptoms of infections?
- one disease resulting from the invasion of each organism named. the names of the organisms that cause infectious diseases? are Name What 4.
- Explain. What general defenses against disease does the body have? Are these defenses against communicable disease only? 5.
- 6. How do disease-producing agents enter the body?
- 7. How are germs transmitted from person to person?
- What is the difference between body resistance to disease and immunity? о Ф
- 9. Distinguish between each of the following kinds of immunity:

inherent

temporary

acquired active

acquired passive

natural

artificial

- 10. What is a carrier?
- ago? How does disease control today differ from disease control 75 years 11.

DISEASE PREVENTION AND CONTROL

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4-6 K-1

Multimedia Resources

These supplementary aids have not

The list is ap-

been evaluated.

Books

American Academy of Pediatrics. Report of the committee on the control of communicable diseases. P.O. Box 1034. Evanston, Illinois 60204. American Academy of Pediatrics. 1966.

the materials and to forward their comments to the Curriculum Develop-

pended for teacher convenience only and teachers in the field a requested to critically evaluate

> APHA. diseases in man. 10th ed. 1790 Broadway. New York 10023. Control of communicable Public Health Association. American

1960 St. Louis. C.V. Mosby Company. C.L. School health practice. Anderson,

T. S. Dennison & Company, Inc. Noel. The modern health book. Minneapolis, Minnesota 55415. (Collection of plays and recitations on the health theme.) Flaurier,

New York. Holt, Rinehart and Winston, Inc. Haag, J.H. School health program. rev. ed. The health bulletin board guide. Minneapolis, Minnesota 55415. Lee, Carvel, and Lee, Lorita. T. T. S. Dennison & Company, Inc. .1son, C.C., M.D. ed. School Health Services. Report of the joint committee on health problems in education. NEA-AMA. NEA 1201 16th Street, N.W. Washington, D.C. 20036. AMA 535 N. Dearborn Street. Chicago, Illinois 63610. 1953. Wilson, C.C., M.D. ed. education. NEA-AMA.

Pamphlets

New York, New York. 1285 Avenue of the Americas. "Protection against communicable diseases" sense about common diseases" Life Insurance Company. Equitable "Common

New York, New York. 1 Madison Avenue. School Health Bureau. Metropolitan Life Insurance Company. "Parents...be wise--immunize!"

"To parents about immunization"
"Your personal health record"

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National Tuberculosis Association, via local offices. "Drugs that fight TB"

Albany, New York 12206. 84 Holland Avenue. New York State Department of Health.

"About germs" "Infectious hepatitis"

"Measles"

"Mumps"

"Smallpox"

"The common cold"
"Triple vaccine"

"Typĥoid fever" "Whooping cough" Prudential Insurance Company. Newark, New Jersey.

"Childhood diseases" "Its fun to be healthy" New York, New York 10017. National Association for Retarded Children, Inc. 420 Lexington Avenue. "What you should know about measles and the measles vaccine"

Posters

Neenah, Wisconsin Kimberly-Clark Corporation. Series." a cold. "How to catch

germs from spreading...keep clean." Local office. National TB Association. "Stop National TB Association. Local office. "To fight germs, be sure to wash your hands."

Filmstrips

"Avoiding infections." Educational Record Sales.

Northfield, Illinois 60093. 1825 Willow Road. "Be happy, be healthy." Hank Newenhouse, Inc.

"Community helpers." Stanley Bowman.

Wilmette, Illinois. for good health." Encyclopedia Britannica, Inc. "Food



"Good health and you." Society for Visual Education.

"Health habits." Educational Record Sales.

Glendale, California 91201 800 Sonora Avenue. Walt Disney. cold." catch a "How to

"The school nurse." McGraw-Hill.

"We have you covered." Society for Visual Education.

Films

Los Angeles, California 90025 11559 Santa Monica Boulevard. the local Yellow Pages.) Film Associates. "A community keeps healthy." (For quick information, see

"Eat for health." Encyclopedia Britannica.

Chicago, Illinois 60601 Coronet. Coronet Building "Eat well, grow well." Chicago, Illinois 60601 Coronet Building. Coronet. they do." "Germs and what

Film Associates. 11559 Santa Monica Boulevard. Los Angeles, California 90025 Library.) (Also available through Syracuse University Film families." "Healthy families." or Yellow Pages.

Chicago, Illinois 60601. Coronet Building. Coronet. "How Billy keeps clean," Albany, New York 12206. 84 Holland Avenue. New York State Film Library. catch a cold" "How to

Chicago, Illinois 60601 Coronet. Coronet Building. catch a cold." "I never

Chicago, Illinois 60601 Coronet Building. Coronet. oids a cold." "Joan av

"Kitty cleans up." Mc-Graw - Hill.

Chicago, Illinois 60601. Coronet Building. "Let's keep food safe to eat." Coronet.

"Sleep for health." Encyclopedia Britannica.

Chicago, Iliinois 60601 Coronet Building. Coronet. "Your friend the doctor."

ERIC Truth Best Provided by ERIC

332 South Michigan Avenue. Film for teachers: "Things a teacher sees." International Film Bureau, Inc. Chicago, Illinois 60604.